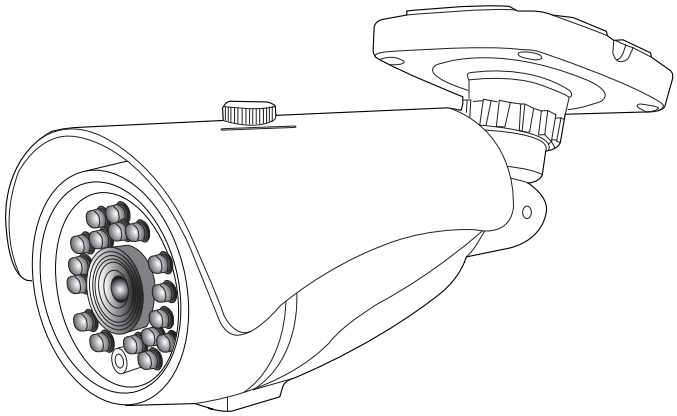
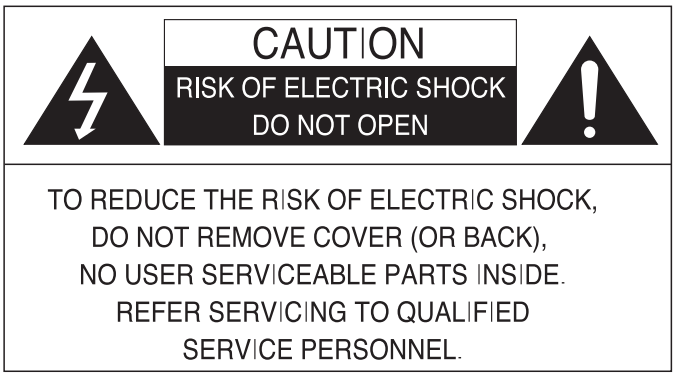
3D DNR / SMART IR BULLET CAMERA

630TVL
3D DNR / SMART IR BULLET CAMERA
USER'S MANUAL



- Sony 1/3" SuperHAD CCD
- High Resolution 630TV Lines
- IR LED : 24 units 850nm Infrared LED, 20,000hrs
- Night View Distance : Indoor 25 / Outdoor 15m
- Intelligent 3DNR(Digital Noise Reduction)
- Smart IR Function
- Sens-Up
- Day & Night
- Backlight Compensation
- Weatherproof (IP67)

8-002


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK),
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.

The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION - This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

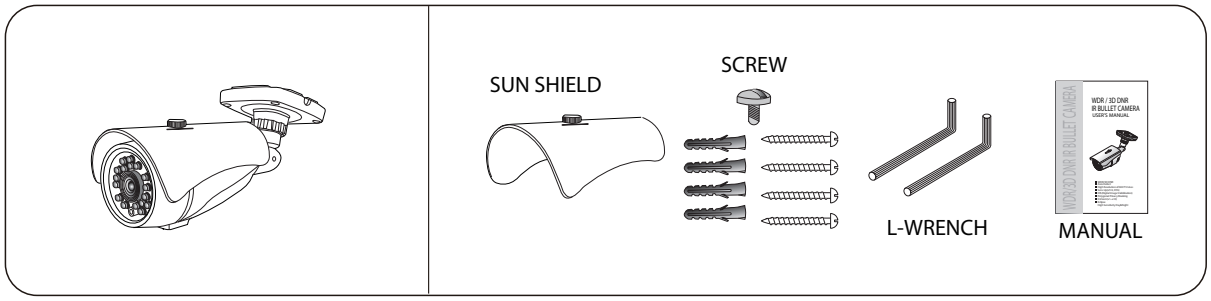
WARNING - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION : To prevent electric shock and risk of fire hazards:

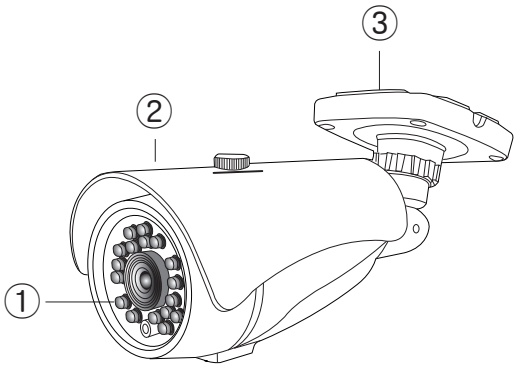
- Do NOT use power sources other than that specified.
- Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.

Components



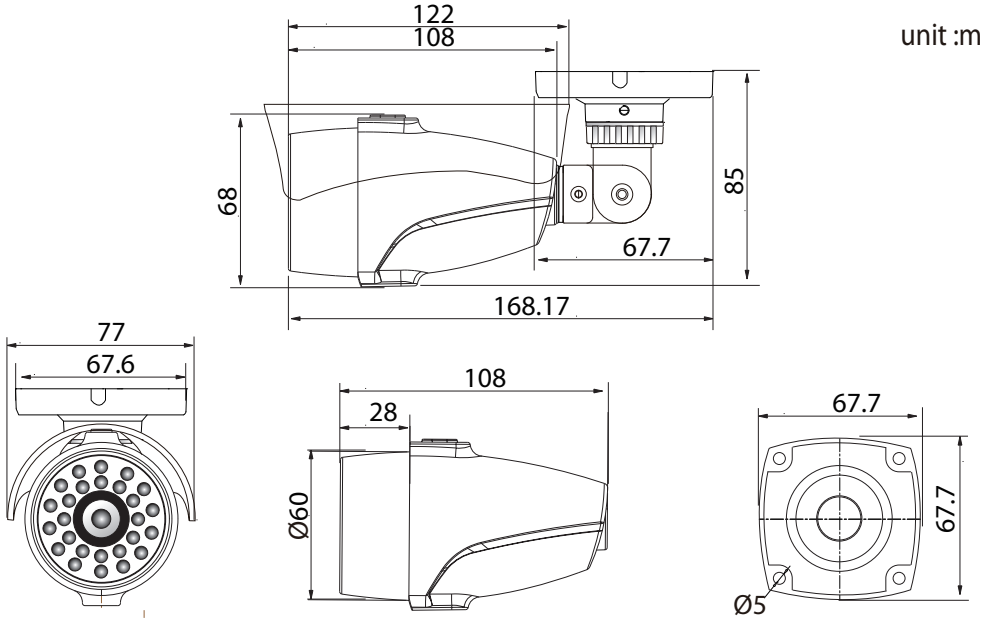
Names and Functions of Parts



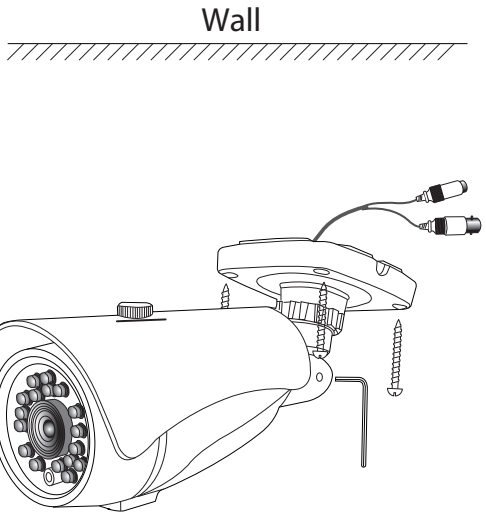
① IR LEDs
② Sun-Shield
③ Bracket

Dimensions

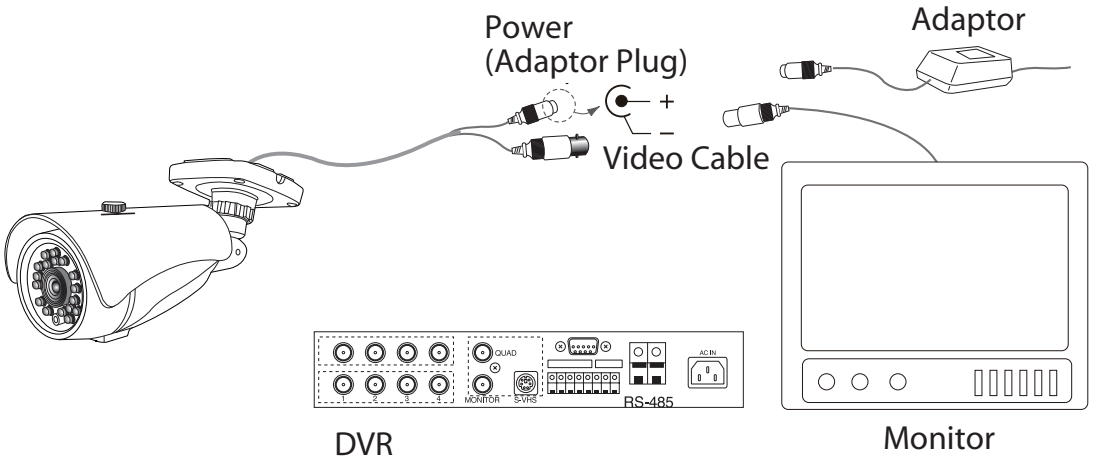
unit :mm



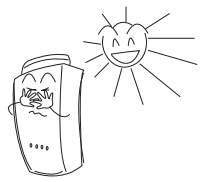
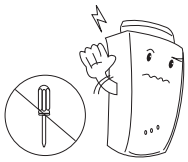
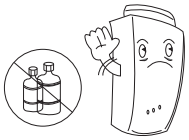
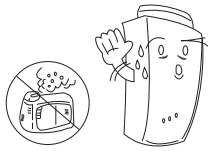
Installation & Connection



DC Power Connecting



Precaution

	Do not Keep the camera face to strong light directly
	Do not install the camera in extreme temperature conditions.
	Do not disassemble the camera even if troubles happened
	To avoid malfunctions, never use the camera close to a gas or oil leak
	Do not drop the camera or subject them to physical shocks.
	Do not expose the camera to rain or spill beverage on it.
	Do not install the camera under unstable lighting conditions
	Do not install or use the camera in an environment where the humidity is high

Features

630 TVL ULTRA HIGH RESOLUTION
The horizontal resolution is 630 TV Lines in Color mode and 700 TV Lines in Black/ White mode using a high density CCD. It gives a vivid image output with super high horizontal resolution using our own De-Mosaic Interpolation algorithm and a specialised built-in sharpness filter.

3D DNR(Digital Noise Reduction)
Achieves excellent 3D-DNR (3 Dimensional-Digital Noise Reduction) function very excellently by using upgraded 3D filtering and enables to keep this function automatically while operating the camera to provide the clear and superior images in very low light luminance. The SAMRT 3D-DNR will be work automatically if There is any movement or motion. Also, this can be focus on the object in reduce the "Ghost Effect" caused by moving object to it self.

Smart IR Function
Smart IR CCTV camera uses anti-saturation intelligent IR technology,enabling the CCTV camera to give the most clear video image during any dark conditions. This unique technology eliminates the problem previously connected with the conventional IR CCTV camera by distinguishing closer objects with control of the IR sensitivity and still providing the sharp picture without saturation.

Sens-Up
Achieves high quality pictures by supporting a long exposure time - more than 1/50second - and enables recognition of the shape and color of a suspended object under no light conditions

HIGH SENSITIVITY TRUE DAY&NIGHT
The Day & Night function delivers high quality color rendition and converts automatically into monochrome as luminance levels drop.

Specifications

TV System		NTSC	PAL
Sensor		Sony 1/3" SuperHAD CCD	
Total Pixels		(H)811 x (V)508	(H)795 x (V)596
Effective Pixels		(H)768 x (V)494	(H)752 x (V)582
Synchronization		H/V 15.734/59.94Hz	H/V 15.625/50Hz
Scanning System		2:1 Interlace	
Horizontal Resolution		630 TV Lines(Max.) / 700 TV Lines(B/W)	
Min. Illumination	Sens-Up Off	0.12 Lux(15IRE), 0.2Lux(30IRE), 0.4Lux(50IRE) F1.2	
	Sens-Up On	0.0002Lux(15IRE), 0.0005Lux(30IRE), 0.0008Lux(50IRE) F1.2	
Video Output		1.0Vp-p/75ohm Video 0.71Vp-p	
γ Correction		0.45	
Monitor		CRT	
S/N		More than 52dB (AGC off)	
Electrical Shutter		1/60~1/100,000	1/50~1/100,000
Day & Night		CDS Day & Night	
Smart IR		ON	
Sens-Up(Low Shutter)		AUTO	
Language		ENG	
White Balance		ATW	
3D-DNR		AUTO	
DPC		AUTO	
Lens		4mm(Option 6mm)	
IR LED		24 units 850nm Infrared LED, 20,000hrs	
Beam Spread		36° + 56°	
Night View Distance		Outdoor 15m (Max.)	
Operating Temperature/Humidity		-20℃ ~60℃ / 30% ~80%	
Storage Temperature/Humidity		-30℃~60℃ / 20% ~90%	
Power(Max.)		DC 12V, 350mA	
Dimension(mm)		60(Ø) x 100(L)mm	

Design and specifications are subject to change with notice.

PRODUCT WARRANTY CARD

1) ITEM # :
2) S/N # :
3) INSTALLATION CONDITION - Indoor ☐ / Outdoor ☐ - Power supply SPECIFICATION : DC12V ☐ / AC24V ☐ CURRENT _____ mA
4) TROUBLESHOOTING - No picture ☐ - Bad image ☐ - No power ☐ - Water damage ☐ - LED ON ☐ / OFF ☐ - ETC. : ☐
* Please keep this warranty card with the manual. * Please fill out this warranty card and send us this warranty card with the faulty units together.

■ Following cases can be charged even within the warrany period.

a. When defects are caused by user's carelessness.

b. When improper or unauthorized repairs are done or when the inside is modified or damaged.

c. Defects caused by natural disaster or power problem.

d. When the warranty card is not filled out or corrected unconfirmed.